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PATENT

Attorney Docket No.: S-09-6

Date 2-19-07  
By Angela Loding  
Angela Loding

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Lewis Sharps et al. )  
Application No.: 10/613,115 ) Examiner: Cohen, Lee S.  
Filed: July 3, 2003 ) Art Unit: 3739  
For: METHODS FOR REPAIRING DAMAGED ) Confirmation No.: 4213  
INTERVERTEBRAL DISCS )  
 ) COMMUNICATION  
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Sir:

**The following information is being brought to the Examiner's attention. This Communication has been updated from the submission previously filed on February 22, 2006, regarding litigation activity.**

I. LITIGATION ACTIVITY

A. *Ethicon* litigation

Applicant brings the following information and list of materials to the attention of the Examiner. On February 13, 1998, ArthroCare Corporation filed a lawsuit in the United States District Court for the Northern District of California against defendants Ethicon, Inc., Mitek Surgical Products, Inc., and Gynecare, Inc., alleging infringement of U.S. Patent Nos. 5,697,909, 5,697,536, 5,697,281, and 5,697,882. The case was assigned Case No. C98-00609 WHO (the "*Ethicon* litigation"). The *Ethicon* litigation terminated in June 1999, with the defendants taking a license from ArthroCare under the patents-in-suit. The defendants paid ArthroCare a license fee and have paid ongoing royalties on sales in the United States of certain arthroscopy and gynecology products covered by these patents.

After the *Ethicon* litigation terminated, Applicant was apprised by a third party of section 2001.06(c) of the Manual of Patent Examining Procedure (“MPEP”) with respect to the prosecution of applications for patents other than those at issue in the *Ethicon* litigation and that were pending before the *Ethicon* litigation was commenced, namely, U.S. Application Nos. 08/807,111 (now U.S. Patent No. 5,891,095), 08/766,382 (now U.S. Patent No. 5,888,198), and 08/760,768 (now U.S. Patent No. 5,766,153).

Although not required to do so, Applicant did bring the *Ethicon* litigation to the attention of Examiner Mendez during the prosecution of at least U.S. Application Nos. 08/807,111 (now U.S. Patent No. 5,891,095), 08/766,382 (now U.S. Patent No. 5,888,198), and 08/795,686 (now U.S. Patent No. 5,871,469), during a telephone conference relating to those applications. Applicant also submitted the prior art that was principally relied on by the defendants in the *Ethicon* litigation to Examiner Mendez during the prosecution of U.S. Application Nos. 08/807,111 (now U.S. Patent No. 5,891,095), 08/766,382 (now U.S. Patent No. 5,888,198), and 08/795,686 (now U.S. Patent No. 5,871,469). Indeed, Applicant withdrew one of those pending applications, namely, U.S. Application No. 08/807,111 (now U.S. Patent No. 5,891,095), from allowance to provide Examiner Mendez with the opportunity to consider those references.

In addition, Applicant provides the following list of materials from the *Ethicon* litigation that reflect the defendants’ and ArthroCare’s primary arguments relating to issues of validity and enforceability:

1. ArthroCare’s Complaint For Patent Infringement Of U.S. Patent Nos. 5,697,909; 5,697,281; 5,697,882; And 5,697,536 filed February 13, 1998;
2. Plaintiff ArthroCare’s Motion For Preliminary Injunction Against Defendant Ethicon And Mitek, filed March 10, 1998.
3. Answer And Counterclaim Of Defendants Ethicon, Inc., Mitek Surgical Products, Inc., And Gynecare, Inc., filed April 6, 1998;
4. Plaintiff ArthroCare’s Motion To Strike Affirmative Defenses And To Strike Defendants’ Counterclaim In Part Or, In The Alternative, For a More Definite Statement, filed April 17, 1998;
5. Defendants’ Opposition To ArthroCare’s Motion To Strike Affirmative Defenses And To Strike Defendants’ Counterclaim In Part Or, In The Alternative For A More Definite Statement And Points And Authorities In Support Of Conditional Motion To File An Amended Answer And Counterclaim, filed May 7, 1998;
6. ArthroCare’s Reply In Support of Motion To Strike Affirmative Defenses And To Strike Defendants’ Counterclaim In Part Or, In The Alternative, For A More Definite Statement, filed May 14, 1998;
7. Memorandum Decision And Order Regarding ArthroCare’s Motion To Strike And Defendants’ Motion For Leave To File An Amended Answer And Counterclaim, issued June 5, 1998;

8. Amended Answer And Counterclaim of Defendants Ethicon, Inc., Mitek Surgical Products, Inc., And Gynecare, Inc., filed June 22, 1998;
9. ArthroCare's Reply to Defendants' Amended Counterclaim, filed July 6, 1998;
10. ArthroCare's Initial Disclosure Of Asserted Claims Pursuant To Local Rule 16-7, served March 30, 1998;
11. Defendants' Initial Disclosure of Prior Art Pursuant To Local Rule 16-7, served May 26, 1998;
12. Plaintiff ArthroCare's Corporation's Opening Claim Construction Brief, filed May 11, 1998;
13. Ethicon, Inc.'s Claim Construction Brief, filed May 22, 1998;
14. Joint Claim Construction Statement Pursuant To Civil Local Rule 16-11(b)(1) For Claim Construction Hearing, filed May 29, 1998;
15. Plaintiff ArthroCare's Corporation's Reply To Defendants' Claim Construction Brief, filed May 29, 1998;
16. Memorandum Decision And Order Regarding Claim Construction, issued July 6, 1998;
17. Defendants' Petition For Permission To Appeal Pursuant To 28 U.S.C. §1292(b) filed with the U.S. Court of Appeals for the Federal Circuit on July 16, 1998;
18. Plaintiff's Answer To Defendants' Petition For Permission To Appeal Pursuant To 28 U.S.C. §1292(b), filed July 23, 1998;
19. Federal Circuit's Order On Petition For Permission To Appeal, issued August 20, 1998;
20. Summary Of Defendant Ethicon's Opposition To Plaintiff ArthroCare's Motion For Preliminary Injunction, filed July 23, 1998;
21. Ethicon's Opposition To Plaintiff ArthroCare's Motion For Preliminary Injunction, filed July 23, 1998;
22. Declaration Of John R. LaCourse In Opposition To ArthroCare's Motion For Preliminary Injunction, filed July 23, 1998;
23. Declaration Of Robert D. Tucker Filed In Support Of Ethicon's Opposition To ArthroCare's Motion For Preliminary Injunction, filed July 23, 1998;
24. Declaration Of Robert A. Armitage, Esq., Filed In Support Of Ethicon's Opposition To ArthroCare's Motion For Preliminary Injunction , filed July 23, 1998;
25. Supplemental Declaration Of Robert A. Armitage, Esq., In Support Of Ethicon's Opposition To Plaintiff ArthroCare's Motion For Preliminary Injunction, filed August 4, 1998;
26. ArthroCare's Reply Memorandum In Support Of Motion For Preliminary Injunction, filed August 6, 1998;

27. Declaration Of James Doss In Support Of ArthroCare's Motion For Preliminary Injunction, filed August 6, 1998;
28. Reply Declaration Of Philip E. Eggers In Support Of ArthroCare's Motion For Preliminary Injunction, filed August 6, 1998;
29. Reply Declaration Of John T. Raffle In Support Of ArthroCare's Motion For Preliminary Injunction, filed August 6, 1998;
30. Ethicon's Supplemental Opposition To Plaintiff ArthroCare's Motion For Preliminary Injunction, filed September 3, 1998.
31. Supplemental Declaration Of Robert D. Tucker, Ph.D., M.D. Filed In Support Of Ethicon's Opposition To ArthroCare's Motion For Preliminary Injunction, filed September 3, 1998;
32. Supplemental Declaration Of John R. LaCourse, Ph.D., Filed In Support Of Ethicon's Opposition To ArthroCare's Motion For Preliminary Injunction, filed September 3, 1998;
33. Direct Examination Of Robert D. Tucker, Ph.D., M.D., Filed In Support Of Ethicon's Opposition To ArthroCare's Motion For Preliminary Injunction; filed September 3, 1998;
34. Direct Examination Of Robert A. Armitage, Esq., Filed In Support Of Ethicon's Opposition To ArthroCare's Motion For Preliminary Injunction, filed September 3, 1998;
35. Direct Examination Of John R. LaCourse, Ph.D., Filed In Support Of Ethicon's Opposition To ArthroCare's Motion For Preliminary Injunction, filed September 3, 1998;
36. ArthroCare's Supplemental Memorandum In Response To The Supplemental Declaration Of Robert A. Armitage, filed September 3, 1998;
37. Direct Testimony Of John T. Raffle In Support Of ArthroCare's Motion For Preliminary Injunction, filed September 3, 1998;
38. Direct Testimony Of Philip E. Eggers In Support Of ArthroCare's Motion For Preliminary Injunction, filed September 3, 1998;
39. Joint Statement Regarding Differences Between The Two Translations Of The Elsasser And Roos Article Proffered By Defendants, filed September 22, 1998;
40. Memorandum Decision And Order Regarding Preliminary Injunction Motion, issued December 2, 1998;
41. Ethicon's Response To ArthroCare's First Set Of Interrogatories To Defendant Ethicon, served November 6, 1998;
42. Plaintiff ArthroCare's Response To Defendant Gynecare, Inc.'s First Set Of Interrogatories, served November 10, 1998;
43. Plaintiff ArthroCare's Response To Mitek's First Set Of Interrogatories, served November 10, 1998;

44. Plaintiff ArthroCare's Response To Defendant Ethicon, Inc.'s First Set Of Interrogatories, served November 10, 1998;
45. Plaintiff ArthroCare's Objections And Responses To Defendants' First Set Of Requests For Admissions, served January 4, 1999;
46. Plaintiff ArthroCare's Objections And Responses To Defendant Gynecare, Inc.'s Second Set Of Interrogatories, served January 4, 1999;
47. Plaintiff ArthroCare's Supplemental Objections And Responses to Defendants' Request For Admission No. 36, served January 5, 1999;
48. Expert Witness Report Of John R. LaCourse, served January 8, 1999;
49. Expert Witness Report Of Robert D. Tucker, served January 8, 1999;
50. Expert Witness Report Of David J. Parins, served January 8, 1999;
51. Expert Witness Report Of Robert A. Armitage, Esq., served January 8, 1999;
52. Expert Witness Report Of Massoud Motamedi, Ph.D., served January 8, 1999;
53. Expert Witness Report Of Ashley J. Welch, Ph.D., served January 8, 1999;
54. Responsive Expert Report Of Leslie A. Geddes, Ph.D., served January 29, 1999;
55. Responsive Expert Report Of Donald W. Banner served January 29, 1999;
56. Supplemental Expert Report Of David J. Parins served February 9, 1999;
57. Ethicon's Motion For Summary Judgment Of Invalidity For Failure To Satisfy The Requirements Of 35 U.S.C. §§102-103, filed March 5, 1999;
58. Joint Statement Of Uncontested Facts In Support Of Ethicon's Motion For Partial Summary Judgment Of Invalidity Under 35 U.S.C. §§102 And 103, filed March 5, 1999;
59. Plaintiff ArthroCare's Opposition To Defendants' Motion For Summary Judgment Of Invalidity Under 35 U.S.C. §§102-103, filed March 18, 1999;
60. Ethicon's Reply Memorandum In Support Of Motion For Summary Judgment Of Invalidity Under 35 U.S.C. §§102 And 103, filed March 25, 1999;
61. Ethicon's Motion For Partial Summary Judgment Of Invalidity For Failure To Satisfy The Requirements Of 35 U.S.C. §112, filed March 5, 1999;
62. Joint Statement Of Uncontested Facts In Support Of Ethicon's Motion For Partial Summary Judgment For Invalidity For Failure To Satisfy The Requirements Of 35 U.S.C. §112, filed March 5, 1999;
63. Plaintiff ArthroCare's Opposition To Defendants' Motion For Partial Summary Judgment Of Invalidity For Failure To Satisfy The Requirements Of 35 U.S.C. §112, filed March 18, 1999;

64. Ethicon's Reply Memorandum In Support Of Motion For Partial Summary Judgment Of Invalidity For Failure To Satisfy The Requirements Of 35 U.S.C. §112, filed March 25, 1999;
65. Declaration Of Leslie A. Geddes, Ph.D., In Support Of ArthroCare's Oppositions To Defendants Motions For Partial Summary Judgment, filed March 18, 1999;
66. Plaintiff ArthroCare's Motion For Partial Summary Judgment That Claims Are Not Anticipated Or Rendered Obvious By Certain References, filed March 5, 1999;
67. Ethicon's Opposition To ArthroCare's Motion For Partial Summary Judgment That Claims Are Not Anticipated Or Rendered Obvious By Certain References, filed March 18, 1999;
68. ArthroCare's Reply Brief In Support Of ArthroCare's Motion For Partial Summary Judgment That Claims Are Not Anticipated Or Rendered Obvious By Certain References, filed March 25, 1999;
69. Plaintiff ArthroCare's Motion For Partial Summary Judgment Of No Inequitable Conduct Or, Alternatively, For Bifurcation, filed March 5, 1999;
70. Joint Statement Of Undisputed Facts In Support Of ArthroCare's Motion For Partial Summary Judgment Of No Inequitable Conduct Or, Alternatively, For Bifurcation, filed March 5, 1999;
71. Ethicon's Opposition Of Plaintiff ArthroCare's Motion For Partial Summary Judgment Of No Inequitable Conduct Or Alternatively For Bifurcation, filed March 18, 1999;
72. Declaration Of Robert A. Armitage, Esq., In Support Of Defendant Ethicon, Inc.'s Opposition To ArthroCare's Motion For Summary Judgment, filed March 18, 1999;
73. Plaintiff ArthroCare's Reply Brief In Support Of Its Motion For Partial Summary Judgment Of No Inequitable Conduct Or, Alternatively, For Bifurcation, filed March 25, 1999;
74. Plaintiff ArthroCare's Motion For Partial Summary Judgment That Defendants Cannot Prevail On Their Enablement And Written Description Defenses As To Certain Claims, filed March 5, 1999;
75. Joint Statement Of Undisputed Facts In Support Of ArthroCare's Motion For Partial Summary Judgment That Defendants Cannot Prevail Under Enablement And Written Description Defenses As To Certain Claims, filed March 5, 1999;
76. Ethicon's Opposition To ArthroCare's Motion For Partial Summary Judgment That Defendants Cannot Prevail On Their Enablement And Written Description Defenses As To Certain Claims, filed March 18, 1999;
77. ArthroCare's Reply Brief In Support Of ArthroCare's Motion For Partial Summary Judgment That Defendants Cannot Prevail On Their Enablement And Written Description Defenses As To Certain Claims, filed March 25, 1999;

78. Defendants' Trial Brief On The Issues Of Unenforceability And Invalidity Under 35 U.S.C. §§102, 103, And 112, filed March 29, 1999;
79. Plaintiff ArthroCare's Trial Brief Re: Validity And Enforceability Of The Patents-In-Suit, filed April 7, 1999;
80. Defendants' Notice Of Prior Art Pursuant To 35 U.S.C. §282, filed April 9, 1999;
81. April 26, 1999 Letter From Defendants To The Court Regarding Additional Claim Construction Issues;
82. Joint Proposed Jury Instructions For Claims 46, 55, 58, 59, 61, And 62 Of U.S. Patent No. 5,697,536;
83. April 30, 1999 Letter From ArthroCare To The Court Regarding Additional Claim Construction Issues;
84. Expedited Motion Of Plaintiff ArthroCare Corporation Regarding Joint Jury Instructions, filed May 13, 1999.

In addition to the above-listed materials, there are numerous other papers that were filed with the Court in connection with the *Ethicon* litigation, some of which were designated confidential pursuant to a protective order. Furthermore, depositions were taken of numerous witnesses regarding validity and enforceability issues, some of which are also confidential. If the Examiner desires, Applicant will submit any or all of the listed materials, other papers filed with the court, and/or transcripts of depositions to the Examiner for consideration, or, if necessary, will contact the parties who designated such material confidential and inquire into changing the designation of such material. Applicant will also provide any additional information that the Examiner desires about the *Ethicon* litigation or the materials described herein.

B. *Smith & Nephew* litigation

On July 25, 2001, ArthroCare Corporation commenced an action in the United States District Court for the District of Delaware against Smith & Nephew, Inc. ("Smith & Nephew") for infringement of U.S. Patent Nos. 5,697,536 ("the '536 Patent"), 5,697,882 ("the '882 Patent") and 6,224,592 ("the '592 Patent"). That action was assigned Civil Action No. 01-504-SLR (the "*Smith & Nephew* litigation"). The *Smith & Nephew* litigation proceeded to trial commencing on April 30, 2003. On May 12, 2003, the jury returned a verdict in favor of ArthroCare on infringement and validity issues with respect to all three patents. A copy of the jury's verdict, dated May 12, 2003, is enclosed. Thereafter, on June 20, 2003, the Court entered judgment on the jury's verdict. A copy of the judgment is enclosed.

Numerous papers were filed with the Court during the *Smith & Nephew* litigation. The official docket kept by the clerk of the Delaware District Court, which is 43 pages long, is enclosed. The files holding the documents corresponding to the docket entries on the official docket span approximately eight linear feet of shelving space. Applicant is enclosing herewith the following

documents from the *Smith & Nephew* litigation which show Smith & Nephew's and Applicant's primary arguments relating to issues of validity and enforceability:

1. Smith & Nephew's Supplemental Responses to Plaintiff ArthroCare's Interrogatories Nos. 4 And 5, dated December 19, 2001;
2. Smith & Nephew's Supplemental Invalidity And Infringement Contentions, served March 29, 2002<sup>1</sup>;
3. Smith & Nephew's Supplemental Invalidity Contentions, served June 3, 2002;
4. Smith & Nephew's Supplemental Invalidity Contentions, served September 10, 2002;
5. Smith & Nephew's Supplemental Invalidity Contentions, served October 9, 2002;
6. ArthroCare's Validity Contentions, served October 15, 2002;
7. Memorandum Order Re: Claim Construction, filed April 9, 2003;
8. Smith & Nephew's Notice Pursuant To 35 U.S.C. § 282;
9. Trial Testimony Of Smith & Nephew's Expert Dr. Kim Manwaring on May 6, 2003;
10. Trial Testimony Of Smith & Nephew's Expert Dr. Kenneth Taylor on May 7 & 8, 2003;
11. Jury Verdict, dated May 12, 2003;
12. Judgment In A Civil Case, filed June 20, 2003;
13. Smith & Nephew's Opening Brief In Support Of Its Inequitable Conduct Case, filed June 9, 2003;
14. Smith & Nephew's Opening Brief In Support Of Its Rule 50(b) Motion For Judgment As A Matter Of Law, filed June 30, 2003;
15. ArthroCare's Corrected Answering Brief In Opposition To Smith & Nephew's Opening Brief In Support Of Its Inequitable Conduct Case, filed July 11, 2003<sup>2</sup>;
16. ArthroCare's Answering Brief In Opposition To Smith & Nephew's Rule 50(b) Motion For Judgment As A Matter Of Law, filed July 30, 2003;
17. Smith & Nephew's Reply Brief In Support Of Its Rule 50(b) Motion For Judgment As A Matter Of Law, filed August 14, 2003.

In addition to the above documents, a number of post trial motions were filed on the issues of infringement, invalidity, and inequitable conduct. In particular, Smith & Nephew filed a motion for judgment as a matter of law; a motion for a new trial; a cross motion to strike ArthroCare's motion for entry

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1. Smith & Nephew marked its infringement contentions "Highly Confidential – Attorneys' Eyes Only" under the protective order. Accordingly, Applicant has secured redacted pages that omit Smith & Nephew's infringement contentions from this document.

<sup>2</sup> Smith & Nephew's Reply Brief In Support Of Its Inequitable Conduct Case, dated July 24, 2003, was filed under seal by Smith & Nephew. If the Examiner requests a copy, Applicant will contact Smith & Nephew in an attempt to secure an agreement by which the brief can be disclosed.



of judgment of no inequitable conduct and a motion to modify the protective order. ArthroCare filed a motion for entry of judgment of no inequitable conduct and a motion for a permanent injunction.

On March 10, 2004 the Court ruled in favor of ArthroCare on all post trial motions. The Court issued a 90 page memorandum opinion: 1.) denying Smith & Nephew's motion for judgment as a matter of law; 2.) denying Smith & Nephew's motion for a new trial; 3.) granting ArthroCare's motion for entry of judgment of no inequitable conduct; 4.) denying Smith & Nephew's cross motion to strike ArthroCare's motion for entry of judgment of no inequitable conduct; 5.) granting ArthroCare's motion for a permanent injunction; and 6.) denying Smith & Nephew's motion to modify the protective order.

The Court also issued, on March 10, 2004, a memorandum opinion granting ArthroCare's motion to dismiss Smith & Nephew's antitrust counterclaims.

The above mentioned memorandum opinions and corresponding orders are enclosed for your consideration.<sup>3</sup>

On June 9, 2004, the Court issued an order enjoining Smith and Nephew from directly infringing, inducing the infringement, and contributing to the infringement of the '536 Patent, the '882 Patent and the '592 Patent. The above mentioned memorandum opinions and corresponding orders are enclosed for your consideration<sup>4</sup>. Smith & Nephew has appealed the judgment and the injunction to the United States Court of Appeals for the Federal Circuit. This brief is enclosed.

On May 10, 2005, the Federal Circuit Court of Appeals issued a decision (attached) in connection with the lawsuit between ArthroCare and Smith & Nephew. In its decision, the Court, among other things, upheld the jury's verdict in favor of ArthroCare on U.S. Patent Nos. 5,697,882 and 6,224,592, but reversed the jury's verdict as to the validity of claims 46, 47, and 56 of U.S. Patent No. 5,697,536.

On May 23, 2005, Patentee filed a Combined Petition for Panel Rehearing and Rehearing *En Banc* (attached). The Petition specifies several points of law and fact overlooked or misapprehended by the Court of Appeals for the Federal Circuit in its May 10, 2005 Decision relating to the '536 Patent, the '882 Patent, and the '592 Patent. The Court issued an Order, dated July 12, 2005, denying Patentee's request for a panel rehearing and rehearing *En Banc*.

On September 2, 2005, ArthroCare and Smith & Nephew entered into a settlement agreement settling the legal disputes arising from the *Smith & Nephew* litigation. Attached is the Form 8-k, dated

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<sup>3</sup> A portion of the memorandum opinion discussing the antitrust issues has been redacted to preserve information that is confidential.

<sup>4</sup> A portion of the memorandum opinion discussing the antitrust issues has been redacted to preserve information that is confidential.

September 9, 2005, filed in connection with this material definitive agreement between ArthroCare and Smith & Nephew.

In addition to the above-listed materials, there are numerous other papers that were filed with the Court or served in connection with the *Smith & Nephew* litigation that relate to invalidity or enforceability issues. These include, for example, the expert reports of Dr. S. Nahum Goldberg (ArthroCare's expert on infringement and validity), Dr. Kenneth Taylor (Smith & Nephew's expert on infringement and invalidity), Dr. Kim Manwaring (Smith & Nephew's expert on invalidity), Dr. Michael Choti (Smith & Nephew's expert on infringement and invalidity), Charles Van Horn (ArthroCare's expert on patent prosecution issues), and Ronald Panitch (Smith & Nephew's expert on patent prosecution issues). Smith & Nephew also served a paper purportedly prepared by Dr. Brian Skromme of Arizona State University related to the validity of the '882 patent. Moreover, the parties filed motions for summary judgment on issues pertaining to the validity of the patents-in-suit. The briefs in support of and opposition to these motions are listed as docket numbers 247, 248, 257, 258, 261, 262, 280, 283, 292, 298, 300, and 302 on the official docket that ArthroCare has enclosed. Smith & Nephew also produced a declaration from Eberhard Roos, the named inventor on U.S. Patent No. 4,116,198 and co-author of the Roos and Elsasser article ("Über ein Instrument zur leckstromfreien transurethralen Resektion"), both of which were references asserted in the Smith & Nephew litigation. There also are many trial exhibits. In addition, pre-trial depositions were taken of several witnesses regarding validity and enforceability issues, including depositions of Dr. Goldberg, Dr. Taylor, Dr. Manwaring, Dr. Choti, Mr. Van Horn, and Mr. Panitch. A list of the depositions taken in the *Smith & Nephew* litigation is set forth below:

1. John Tighe, taken September 18, 2002 and November 8, 2002 (ArthroCare employee, fact witness);
2. Diane DeLucia, taken September 19, 2002 (Smith & Nephew employee, fact witness);
3. John Raffle, taken September 19, 2002 and November 11, 2002 (ArthroCare employee and patent attorney, fact witness);
4. James Heslin, taken September 24, 2002 (patent attorney, fact witness);
5. Fernando Sanchez, taken September 24, 2002 (ArthroCare employee, fact witness);
6. Duane Marion, taken September 28, 2002 (former Smith & Nephew employee, fact witness);
7. John Graf, taken October 1, 2002 (Smith & Nephew employee, fact witness);
8. Hira Tahpliyal, taken October 1, 2003 and November 14, 2002 (co-inventor of patents-in-suit, fact witness);
9. Jim Pacek, taken October 3, 2002 and November 7, 2002 (ArthroCare employee, fact witness);
10. John Konsin, taken October 3, 2002 (Smith & Nephew employee, fact witness);

11. Jean Woloszko, taken October 3, 2002 (ArthroCare employee, fact witness);
12. Andrew Eggers, taken October 4, 2002 (employee of Eggers & Associates (owned by Philip E. Eggers, co-inventor of patents-in-suit), fact witness);
13. Bruce Prothro, taken October 4, 2002 (ArthroCare employee, fact witness);
14. Kara Weldon, taken October 5, 2002 (current or former Smith & Nephew employee, fact witness);
15. David Balford, taken October 5, 2002 (Smith & Nephew employee, fact witness);
16. Allen Weinstein, taken October 8, 2002 (ArthroCare employee, fact witness);
17. Christine Hanni, taken October 10, 2002 (former ArthroCare employee, fact witness);
18. Linda Guthrie, taken October 11, 2002 (Smith & Nephew employee, fact witness);
19. Michael Baker, taken October 11, 2002 (ArthroCare CEO, fact witness);
20. Kate Knudsen, taken October 11, 2002 and November 7, 2002 (Smith & Nephew employee, fact witness);
21. Sally Maher, taken October 11, 2002 (Smith & Nephew employee, fact witness);
22. Ron Sparks, taken October 11, 2002 (Smith & Nephew CEO, fact witness);
23. Philip E. Eggers, taken October 15 and 29, 2002, November 13, 2002, and April 30, 2003 (co-inventor of patents-in-suit, fact witness);
24. Tom Ross, taken October 15, 2002 (current or former employee of Oratec Interventions, Inc. (acquired by Smith & Nephew), fact witness);
25. Jack Cordes, taken October 15, 2002 (former employee of Eggers & Associates, fact witness);
26. Michael Long, taken October 29, 2002 (former Smith & Nephew employee, fact witness);
27. Joan McCreary, taken October 30, 2002 (Smith & Nephew employee, fact witness);
28. Todd Plevinsky, taken October 31, 2002 (former Smith & Nephew employee, fact witness);
29. Karen Drucker, taken November 1 and 14, 2002 (Smith & Nephew employee, fact witness);
30. Allen Gannon, taken November 1, 2002 (Smith & Nephew employee, fact witness);
31. Jim Pacek, taken November 7, 2002 (ArthroCare employee, fact witness);
32. Tim Crabtree, taken November 7, 2002 (former Smith & Nephew employee, fact witness);
33. John Konsin, taken November 7, 2002 (Smith & Nephew employee, fact witness);
34. Jason Krieser, taken November 13, 2003 (Smith & Nephew employee, fact witness);
35. Dr. Kim Manwaring, taken March 20, 2003 (Smith & Nephew expert witness);
36. Dr. Eliot Leitman, taken March 25, 2003 (ArthroCare expert witness);
37. Dr. Kenneth Taylor, taken March 27 and 28, 2003 (Smith & Nephew expert witness);
38. Dr. S. Nahum Goldberg, taken March 27 and 28, 2003 (ArthroCare expert witness);

- 39. Ronald Panitch, taken March 28, 2003 (Smith & Nephew expert witness);
- 40. Dr. Michael Choti, taken March 30, 2003 (Smith & Nephew expert witness);
- 41. Charles Van Horn, taken April 3, 2003 (ArthroCare expert witness);
- 42. Creighton Hoffman, taken April 4, 2003 (ArthroCare expert witness);
- 43. Brian Napper, taken April 17, 2003 (Smith & Nephew expert witness);
- 44. Warren Heim, taken April 22, 2003 (consultant to Smith & Nephew, fact witness).

Smith & Nephew designated many of the materials from the *Smith & Nephew* litigation as confidential pursuant to the protective order in that case. Without admitting the materiality or relevance of the foregoing materials, Applicant will submit any or all of the foregoing materials to the Examiner for consideration or, if the Examiner requests materials that have been filed under seal or designated confidential pursuant to the protective order, Applicant will contact Smith & Nephew in an attempt to secure an agreement by which such materials can be disclosed.

## II. REEXAMINATION

### A. The '536 Patent

On December 23, 1999, an *Ex Parte* Reexamination Request ("Request") for the '536 Patent was filed with the PTO. Applicant has enclosed a copy of the file history for the '536 Reexamination with this Information Disclosure Statement. The Request sought reexamination of claims 1-3, 14, 16, 22, 27, 30, 33, 38, 41-48, 55, 57, 60, and 63 of the '536 Patent in light of U.S. Patent 4,116,198 ("the Roos '198"). The PTO granted the Request on October 27, 2000.

On November 15, 2002, the PTO mailed an Office Action. The Office Action is divided into two sections. Section I sets forth the conclusion of the examiner and a board of primary examiners that "the Roos '198 does not anticipate or render obvious any of the independent claims of record." *See* November 15, 2002 Office Action at 3. Section II contains a rejection of claims 1-64 of the '536 Patent as anticipated under 35 U.S.C. § 102(b) and obvious under 35 U.S.C. § 103 in light of certain references identified in an Information Disclosure Statement filed by Applicant on June 19, 2002. On December 19, 2002, Applicant submitted a Response to the Office Action.

On March 14, 2003, the PTO issued a Notice of Intent to Issue *Ex Parte* Reexamination Certificate ("NIRC"). The NIRC states that "the examiner of record concurs with the arguments presented by patent Applicant on paper number 15. Accordingly, it is concluded that claims 1-64 are allowable over the prior art of record." *See* NIRC at 2. A Reexamination Certificate issued on June 10, 2003.

Additionally, on April 9, 2003, another *Ex Parte* Reexamination Request for the '536 Patent was filed with the PTO. The Request sought reexamination of claims 1, 2, 5, 9, 14, 15, 25, 26, 28, 30-33, 36, 38, 40, 42-47, 49, 53, 55, 56, 58, 59, 61, and 63 of the '536 Patent in light of the Roos '198; Elasser and Roos, "Uber ein Instrument zur leckstromfreien transurethralen resection," Medizinal-Markt/Acto Medico technica, Vol. 24, No. 4/1976, pp. 129-134 ("the Elasser and Roos article"); U.S. Patent Nos. 4,805,616; 4,674,499; 4,381,007; 5,217,459; and 5,007,908. The PTO granted the Request on June 30, 2003. It has been assigned Reexamination No. 90/006,597.

An Office Action issued on November 18, 2004. Applicant filed a timely reply on January 18, 2005. On September 19, 2005, the PTO issued a NIRC indicating that Claims 1-64 were patentable or confirmed. Applicant filed a reply on March 25, 2005.

On September 19, 2005, the PTO issued a NIRC indicating that Claims 1-64 were amended. Claim 65 was cancelled. Claims 1, 45, 47 and 63 were determined to be patentable as amended. Claims 2-44, 46, 48-62 and 64, dependent on an amended claim, were determined to be patentable.

On May 1, 2007, the PTO issued an EX PARTE REEXAMINATION CERTIFICATE indicating that Claims 1, 45, 47 and 63 are determined to be patentable as amended. Claims 2-44, 46, 48-62 and 64, dependent on an amended claim, are determined to be patentable.

#### B. The '882 Patent

On April 18, 2003, an *Ex Parte* Reexamination Request for the '882 Patent was filed with the PTO. The Request sought reexamination of claims 1, 13, 17, 18, 24, 26, 28, 29, 48 and 54 of the '882 Patent in light of U.S. Patent Nos. 5,122,138; 5,007,908; and Slager et al., "Vaporization Of Atherosclerotic Plaques By Spark Erosion," JACC Vol. 5, No. 6, June 1985:1382-6 ("the Slager Article"). The PTO granted the Request on July 1, 2003. It has been assigned Reexamination No. 90/006,607.

An Office Action issued on February 18, 2005. Applicant filed a timely reply on April 18, 2005.

On April 28, 2006, the PTO issued a NIRC indicating that Claims 2-13, 15, 16, 21, 22, 25, 27, and 32-36 were patentable or confirmed. New Claims 57-67 were patentable. Claims 28-31 and 37-56 were amended, and Claims 1, 14, 17-20, 23, 24, and 26 were cancelled.

On January 9, 2007, the PTO issued a NIRC indicating that Claims 2-13, 15, 16, 21, 22, 25, 27, and 32-36 were confirmed. Claims 1, 14, 17-20, 23, 24, and 26 were cancelled. Claims 28, 37, 41, 45-52 and 54-56 were determined to be patentable as amended. Claims 29, 30, 31, 38-40, 42, 43, 44 and 53,

dependent on an amended claim, were determined to be patentable. New claims 57-67 were added and determined to be patentable.

On January 9, 2007, the PTO issued an EX PARTE REEXAMINATION CERTIFICATE indicating that Claims 2-13, 15, 16, 21, 22, 25, 27, and 32-36 were confirmed. Claims 1, 14, 17-20, 23, 24, and 26 were cancelled.

Should the Examiner desire copies of any of the documents filed in connection with the above reexaminations Applicant will submit them upon a request to do so in writing from the Examiner.

C. The '592 Patent

On April 21, 2003, an *Ex Parte* Reexamination Request for the '592 Patent was filed with the PTO. The Request sought reexamination of claims 1, 3, 4, 9, 11, 21, 23, 26, 27, 30, 32 and 42 of the '592 Patent in light of the Roos '198; the Elasser and Roos article; U.S. Pat. Nos. 4,381,007 to Doss; and the Slager Article. The PTO granted the Request on July 7, 2003. It has been assigned Reexamination No. 90/006,611.

An Office Action issued on April 14, 2005 and April 26, 2005. Applicant filed a timely reply on June 27, 2005.

On April 27, 2006, the PTO issued a NIRC indicating that Claims 7, 8, 10, 29, 31, and 32 were patentable or confirmed. Claims 1-6, 9, 11-28, 30 and 33-43 were cancelled.

On September 12, 2006, the PTO issued an EX PARTE REEXAMINATION CERTIFICATE indicating that Claims 7, 8, 10, 29, 31, and 32 were confirmed. Claims 1-6, 9, 11-28, 30 and 33-43 were cancelled.

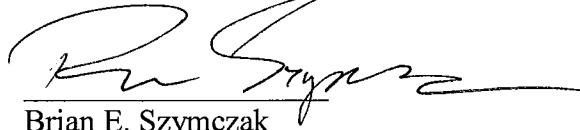
Should the Examiner desire copies of any of the documents filed in connection with the above reexaminations Applicant will submit them upon a request to do so in writing from the Examiner.

### III. CO-PENDING PATENT APPLICATIONS

The following is a list of co-pending applications:

Application No.	Filing Date		Application No.	Filing Date
09/293,231	16-Apr-1999		11/089,879	25-Mar-2005
09/338,842	23-Jun-1999		11/125,613	09-Mar-2005
09/347,390	06-Jul-1999		11/270,344	09-Nov-2005
09/354,835	16-Jul-1999			
09/372,454	11-Aug-1999		11/327,089	06-Jan-2006
09/457,201	06-Dec-1999		11/327,553	06-Jan-2006
			11/367,254	02-Mar-2006
09/501,327	09-Feb-2000		11/612,995	19-Dec-2006
09/586,295	02-Jun-2000			
			11/626,656	22-Jan-2007
09/796,094	28-Feb-2001		11/673,386	09-Feb-2007
			11/680,664	01-Mar-2007
10/097,763	13-Mar-2002		11/681,594	02-Mar-2007
			11/688,398	20-Mar-2007
10/339,470	09-Jan-2003		11/690,449	23-Mar-2007
10/682,600	09-Oct-2003		11/692,795	28-Mar-2007
			11/697,606	06-Apr-2007
			11/754,551	29-May-2007

Respectfully submitted  
Attorney for Applicants,

A handwritten signature in black ink, appearing to read "Brian E. Szymczak", written over a horizontal line.

Brian E. Szymczak  
Reg. No. 47,120

Date: 7-18-2007

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